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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/650,851				
Filing Date	08/29/2000				
First Named Inventor	Mandeep Singh Chadha				
Art Unit	2634				
Examiner Name	Shuwang Liu				
Attorney Docket Number	M. CHADHA 1-1-1-1				

	•		U. S. PATEN	DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		<sup>US-</sup> 5,732,107	03/24/1998	Phillips, et al.		
		<sup>US-</sup> 6,208,671	03/27/2001	Paulos, et al.		
		<sup>US-</sup> 6,628,738	09/30/2003	Peeters, et al.	ECEIVED	
		<sup>US-</sup> 6,389,064	05/14/2002	Dholakia, et al.		
		<sup>US-</sup> 5,748,126	05/05/1998	Ma, et al. J	UN 0 9 2004	
		<sup>US-</sup> 5,351,087	09/27/1994	Christopher, et al.		
		<sup>US-</sup> 6,240,128 B1	05/29/2001	Banerjea, et al.	ology Center 2600	
		<sup>US-</sup> 5,418,849	05/23/1995	Cannalire, et al.		
		<sup>US-</sup> 5,353,279	10/04/1994	Koyama	7.77	
		<sup>US-</sup> 4,924,492	05/08/1990	Gitlin, et al.		
		<sup>US-</sup> 5,841,809	11/24/1998	Koizumi, et al.		
		<sup>US-</sup> 5,396,517	03/07/1995	Yedid, et al.		
		<sup>US-</sup> 4,707,824	11/17/1987	Kanemasa		
		<sup>US-</sup> 5,610,909	03/11/1997	Shaw		
		<sup>US-</sup> 5,631,899	05/20/1997	Duttweiler		
		<sup>US-</sup> 5,668,794	09/16/1997	McCaslin, et al.		
		<sup>US-</sup> 5,926,505	07/20/1999	Long		
		<sup>US-</sup> 6,532,289	03/11/2003	Magid		
-		<sup>US-</sup> 6,597,787	07/22/2003	Lindgren, et al.		

FOREIGN PATENT DOCUMENTS							
Examiner Cite Foreign Patent Document No.1	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	T			
		Country Code <sup>3 -</sup> Number <sup>4 -</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	, applicant of Orico Bosament	Or Relevant Figures Appear	Τ'	
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09/650,851
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First Named Inventor	Mandeep Singh Chadha
Art Unit	2634
Examiner Name	Shuwang Liu

Complete if Known

Attorney Docket Number M. CHADHA 1-1-1-1 **U. S. PATENT DOCUMENTS Document Number** Publication Date Name of Patentee or Pages, Columns, Lines, Where MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Number-Kind Code<sup>2 (I known)</sup> Figures Appear <sup>US-</sup> 6,526,139 02/25/2003 Rousell, et al. <del>JUN 0 9 2004</del> Technology Center 2600

FOREIGN PATENT DOCUMENTS							
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				Application Number	09/650,851	
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(Use as many sheets as necessary)		Art Unit	2634			
	(Ose as many si	10013 83 1160	ossaiy)	Examiner Name	Shuwang Liu	JUN 0 9 2004
Sheet	3	of	3	Attorney Docket Number	M. CHADHA 1-1-1-	Technology Center 2

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	The state of the s			
		Floyd M. Gardner "Interpolation in Digital Modems - Part I: Fundamentals" IEEE Transactoins on Communications, Vol. 41, No. 3, March 1993; pp. 501-507		
		Lars Erup, et al. "Interpolation in Digital Modems - Part II: Implementation and Performance" IEEE Transactions on Communications, Vol. 41, No. 6, June 1993; pp. 998-1008		
		James. D. Barnette, et al.; U.S. Patent Application Serial No. 09/652,116, filed 08/29/2000 entitled "Resampler for a bit Pump and Method of Resampling a Signal Associated Therewith"; pp. 1-59; 6 drawing sheets		
		Mandeep Singh Chadha, et al.; U.S. Patent Application Serial No. 09/650,854, filed 08/29/2000 entitled "Separation Circuit for an Echo Canceling System and Method of Operating the Same"; pp. 1-67; 6 drawing sheets		
		Mandeep Singh Chadha, et al.; U.S. Patent Application Serial No. 09/650,853, filed 08/29/2000 entitled "Echo Canceling System for a Bit Pump and Method of Opearting the Same"; pp. 1-60; 5 drawing sheets		
		James D. Barnette; U.S. Patent Application Serial No. 09/650,850, filed 08/29/2000 entitled "An Interpolator, a Resampler Employing the Interpolator and Method of Interpolating a Signal Associated Therewith"; pp. 1-78; 6 drawing sheets		
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Signature	Considered	

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